

State of Tennessee  
 Department of Environment and Conservation  
 Division of Air Pollution Control  
 William R. Snodgrass Tennessee Tower  
 312 Rosa L. Parks Avenue, 15<sup>th</sup> Floor  
 Nashville, TN 37243  
 Telephone: (615) 532-0554



APC 100

## NON-TITLE V PERMIT APPLICATION FACILITY IDENTIFICATION

Please type or print and submit in duplicate for each emission source. Attach appropriate source description forms.				
SITE INFORMATION				
1. Organization's legal name Tennessee Department of Transportation			For APC use only	APC Company point no. 73-0248-02
2. Site name (if different from legal name) TDOT - Harriman District Garage				APC Log/Permit no. 069214G
3. Site address (St./Rd./Hwy.) 1951 South Roane Street			County name Roane	
City or distance to nearest town Harriman		Zip code 37748	4. NAICS or SIC code 237310	
5. Site location (in lat./long.)	Latitude 35° 54' 09.37" N		Longitude 84° 36' 03.90" W	
CONTACT INFORMATION (RESPONSIBLE PERSON)				
6. Responsible person/Authorized contact John W. Nichols			Phone number with area code (615) 741-7432	
Mailing address (St./Rd./Hwy.) 505 Deaderick Street Suite 300 J.K. Polk Building			Fax number with area code (615) 741-1098	
City Nashville	State TN	Zip code 37243-0334	Email address john.nichols@tn.gov	
CONTACT INFORMATION (TECHNICAL)				
7. Principal technical contact Same As Responsible Person			Phone number with area code	
Mailing address (St./Rd./Hwy.)			Fax number with area code	
City	State	Zip code	Email address	
CONTACT INFORMATION (BILLING)				
8. Billing contact Same As Responsible Person			Phone number with area code	
Mailing address (St./Rd./Hwy.)			Fax number with area code	
City	State	Zip code	Email address	
EMISSION SOURCE INFORMATION				
9. Emission source no. (number which uniquely identifies this source) Gasoline Dispensing Facility				
10. Brief description of emission source This gasoline dispensing facility consists of two 10,000 gallon underground storage tanks and associated dispensers. One tank holds gasoline and the other holds diesel. The tanks were installed in 1999.				
11. Normal operation:		Hours/Day 24	Days/Week 7	Weeks/Year 52
				Days/Year 365
12. Percent annual throughput		Dec. - Feb. 25%	March - May 25%	June - August 25%
				Sept. - Nov. 25%

(Over)

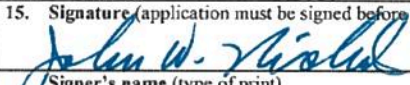

TYPE OF PERMIT REQUESTED				
13. Operating permit ( X )	Date construction started 1999	Date completed 1999	Last permit no.	Emission source reference number
Construction permit ( )	Last permit no.		Emission source reference number	
If you choose Construction permit, then choose either New Construction, Modification, or Location transfer				
	New Construction ( )	Starting date	Completion date	
	Modification ( )	Date modification started or will start	Date completed or will complete	
	Location transfer ( )	Transfer date	Address of last location	
14. Describe changes that have been made to this equipment or operation since the last construction or operating permit application:				
No changes made since installation				
SIGNATURE				
Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application and any attached application(s) is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.				
15. Signature (application must be signed before it will be processed)		Date		
				
Signer's name (type of print) John W. Nichols		Title Facility Compliance Coordinator		Phone number with area code

Table of Pollution Reduction Device or Method Codes

Note: For cyclones, settling chambers, wet scrubbers, and electrostatic precipitators; the efficiency ranges correspond to the following percentages:

High: 95-99%      Medium: 80-95%      And Low: Less than 80%.

If the system has several pieces of connected control equipment, indicate the sequence. For example: 008'010.97%

If none of the below codes fit, use 999 as a code for other and specify in the comments.

No Equipment.....	000	Limestone Injection - Dry.....	041
Activated Carbon Adsorption.....	048	Limestone Injection - Wet.....	042
Afterburner - Direct Flame.....	021	Liquid Filtration System.....	049
Afterburner - Direct Flame with Heat Exchanger.....	022	Mist Eliminator - High Velocity.....	014
Afterburner - Catalytic.....	019	Mist Eliminator - Low Velocity.....	015
Afterburner - Catalytic with Heat Exchanger.....	020	Process Change.....	046
Alkalized Alumina.....	040	Process Enclosed.....	054
Catalytic Oxidation - Flue Gas Desulfurization.....	039	Process Gas Recovery.....	060
Cyclone - High Efficiency.....	007	Settling Chamber - High Efficiency.....	004
Cyclone - Medium Efficiency.....	008	Settling Chamber - Medium Efficiency.....	005
Cyclone - Low Efficiency.....	009	Settling Chamber - Low Efficiency.....	006
Dust Suppression by Chemical Stabilizers or Wetting Agents.....	062	Spray Tower (Gaseous Control Only).....	052
Electrostatic Precipitator - High Efficiency.....	010	Sulfuric Acid Plant - Contact Process.....	043
Electrostatic Precipitator - Medium Efficiency.....	011	Sulfuric Acid Plant - Double Contact Process.....	044
Electrostatic Precipitator - Low Efficiency.....	012	Sulfur Plant.....	045
Fabric Filter - High Temperature.....	016	Vapor Recovery System (Including Condensers, Hooding and Other Enclosures).....	047
Fabric Filter - Medium Temperature.....	017	Venturi Scrubber (Gaseous Control Only).....	053
Fabric Filter - Low Temperature.....	018	Wet Scrubber - High Efficiency.....	001
Fabric Filter - Metal Screens (Cotton Gins).....	059	Wet Scrubber - Medium Efficiency.....	002
Flaring.....	023	Wet Scrubber - Low Efficiency.....	003
Gas Adsorption Column - Packed.....	050	Wet Suppression by Water Sprays.....	061
Gas Adsorption Column - Tray Type.....	051		
Gas Scrubber (General: Not Classified).....	013		

Table of Emission Estimation Method Codes

Not application / Emissions are known to be zero.....	0
Emissions based on source testing.....	1
Emissions based on material balance using engineering expertise and knowledge of process.....	2
Emissions calculated using emission factors from EPA publications No. AP-42 Compilation of Air Pollution Emissions Factors.....	3
Judgment.....	4
Emissions calculated using a special emission factor different from that in AP-42.....	5
Other (Specify in comments).....	6



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APC 114

## NON-TITLE V PERMIT APPLICATION GASOLINE DISPENSING FACILITY DESCRIPTION

Please type or print and submit in duplicate. Attach to the Non-Title V Facility Identification Form (APC 100). Please complete one form for each facility if multiple owned.									
<b>GENERAL IDENTIFICATION AND DESCRIPTION</b>									
<b>1. Organization name</b> TDOT - Harriman District Garage					For APC use only	APC Company - Point no			
<b>2. Emission source no.</b> (As on Non-Title V Facility Identification Form) Gasoline Dispensing Facility					For APC use only	APC Log/Permit no			
<b>INDEPENDENT SMALL BUSINESS MARKETER OF GASOLINE (I.S.B.M.)</b>									
<b>3. Claiming Independent Small Business Marketer (I.S.B.M.) of Gasoline as stated in rule 1200-03-18-.24(2)?</b> <span style="float: right;">Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></span>									
If yes, submit Notarized Certification stating that business satisfies the I.S.B.M. definition criteria found in 1200-03-18-.24(2) and provide the following information:									
Owner's annual income from refining or marketing of gasoline:									
Owner's total annual income:									
<b>GASOLINE TANK AND DISPENSER INFORMATION</b>									
<b>4. List gas type, capacity, and type of tank (Aboveground or Underground. Circle one), and installation date for each tank at facility. Attach additional sheet if more than 10 tanks to list.</b>									
Tank #	Gas type	Capacity (Gal.)	Tank Type	Installation date	Tank #	Gas type	Capacity (Gal.)	Tank type	Installation date
1.	Gasoline	10,000	AG / <input checked="" type="checkbox"/> UG	1999	6.			AG / <input type="checkbox"/> UG	
2.	Diesel	10,000	AG / <input checked="" type="checkbox"/> UG	1999	7.			AG / <input type="checkbox"/> UG	
3.			AG / <input type="checkbox"/> UG		8.			AG / <input type="checkbox"/> UG	
4.			AG / <input type="checkbox"/> UG		9.			AG / <input type="checkbox"/> UG	
5.			AG / <input type="checkbox"/> UG		10.			AG / <input type="checkbox"/> UG	
5. Total number of gasoline nozzles:				2	Make:		Unknown	Model: Unknown	
6. Gasoline dispense make:				Gasboy	Model:		Unknown		
<b>STAGE I AND II SYSTEM DESCRIPTIONS</b>									
7. Stage I system CARB executive order:						Installation date:			
8. Stage II system CARB executive order:						Installation date:			
Check general type of Stage II system:				Balance: <input type="checkbox"/>		Vacuum vapor assist: <input type="checkbox"/>			
9. Minimum slope of Stage II vapor return lines from dispensers to tank (inches per foot):									
10. Type of pressure/vacuum vent valve (if installed) make:								Model:	
<b>THROUGHPUT AND SUPPLIER</b>									
11. Maximum monthly throughput (Gal.):				1,700		Average yearly throughput (Gal.):		13,000	
12. Supplier of gasoline (company name) Mansfield Oil Company					Supplier of gasoline (contact name)				
Mailing address (St./Rd. Hwy.) 1025 Airport Parkway SW					Mailing address (St./Rd./Hwy.)				
City Gainesville		State GA	Zip code 30501		City		State	Zip code	
Phone number (800) 695 - 6626					Phone number				

## Gasoline Dispensing Facility (GDF) Emission Calculations

Facility Name: TDOT - Harriman District Garage

Emission Source Reference Number:

Maximum Monthly Throughput: 1,700 gallons

Scenario: 4 (as described below)

Emission Factor: 18.41 pounds/1000 gallons

### Emissions

Daily: 1.03 pounds/day

Annual: 0.2 tons/year

Scenario	Scenario Description	Loading	Breathing	Refueling	Spillage	Total
1	AG: No Control	8.4	2.1	8.4	0.61	19.51
2	AG: Phase I only	0.42	2.1	8.4	0.61	11.53
3A	AG: Phase I and II w/o Vent Valve	0.42	2.1	0.42	0.42	3.36
3B	AG: Phase I and II w/Vent Valve	0.42	0.525	0.42	0.42	1.785
4	UG: No Control	8.4	1	8.4	0.61	18.41
5A	UG: Phase I only	0.42	1	8.4	0.61	10.43
5B	UG: Phase I with Vent Valve	0.42	0.25	8.4	0.61	9.68
6A	UG: Phase I and II w/o Vent Valve	0.42	1	0.42	0.42	2.26
6B	UG: Phase I and II w/Vent Valve	0.42	0.25	0.42	0.42	1.51
6C	UG: Phase I EVR and II w/Vent Valve	0.168	0.25	0.42	0.42	1.258

Based on emission factors provided by SBCAPCD. Emission factors from AP-42, Table 5.2-7 do not contain factors for above ground tanks.